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2. (Previously Presented) A digital pressure display as claimed in claim 1 wherein said microprocessor means intermittently enables said sensor means to sense said pressure and generate said signal.
3. (Previously Presented) A digital pressure display as claimed in claim 2 wherein said power means comprises a battery.
4. (Previously Presented) A digital pressure display as claimed in claim 3 wherein said battery is rechargeable.
5. (Previously Presented) A digital pressure display as claimed in claim 1 further including a light sensor for sensing a dark condition so as to terminate the generation of said digital pressure reading during said dark condition.
6. (Previously Presented) A digital pressure display as claimed in claim 4 further including a light sensor sensing a dark condition so as to terminate the generation of said digital pressure reading during said dark condition.
7. (Previously Presented) A digital pressure display as claimed in claim 4 including circuitry means having a solar power cell to recharge said battery.
8. (Previously Presented) A digital pressure display as claimed in claim 2 wherein said display is associated with a vacuum regulator for digitally displaying a level of vacuum administered to a patient.
9. (Previously Presented) A digital pressure display as claimed in claim 8 wherein said digital display is replaceable with a needle dial.
10. (New Claim) A digital pressure display as claimed in claim 1 further comprising:
 - (a) a manual pressure control valve operable by an operator to adjust a vacuum pressure supplied to the patient;

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- (b) said sensor comprising a vacuum pressure sensor operable to sense the vacuum pressure for the patient, and to produce a treatment vacuum pressure signal;
 - (c) a sampling circuit operable intermittently by electrical power to sample said pressure signal generated by said vacuum pressure sensor at predetermined time intervals and generate sampling signals;
 - (d) an electrically powered pressure display circuit communicating with said, and digital pressure display, for receiving said sampling signals and generating a visible digital pressure display; and
 - (e) a non-mains power supply connected for supplying power both to said sampling circuit for sampling said vacuum sensor, and to said display circuit and said digital pressure display.
11. (New Claim) A digital pressure display as claimed in claim 10 and including a no-pressure signal generator for generating at least one no-pressure signal representing an absence of treatment vacuum pressure, and an alarm signal generator, and an alarm responsive thereto, operable in response to a no-pressure signal to generate an alarm.
12. (New Claim) A digital pressure display as claimed in claim 11 and wherein said control valve is manually operable to adjust said treatment vacuum pressure so as to maintain a desired level of vacuum pressure.
13. (New Claim) A digital pressure display as claimed in claim 12 and wherein said no-pressure signal generator responds to the occlusion of a treatment device connected to a patient and signals an alarm.
14. (New Claim) A digital pressure display as claimed in claim 13 and including an operator override control whereby an operator can manually override said pressure control valve and supply full vacuum for treatment of said patient.

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15. (New Claim) A digital pressure display as claimed in claim 14 and including a control sensor coupled to said manual control, said sensor being connected to said sampling circuit, and being operable to temporarily increase the sampling rate when said control is adjusted.

16. (New Claim) A digital pressure display as claimed in claim 15 wherein said control sensor comprises a potentiometer.

17. (New Claim) A digital pressure display as claimed in claim 1 for use in association with a vacuum system in which a vacuum is employed for healthcare purposes, for assisting in monitoring and regulating the vacuum pressure, further comprising:

- (a) a manual pressure control valve operable by an operator to adjust the treatment vacuum pressure supplied to the patient;
- (b) said sensor comprising a vacuum pressure sensor operable to sense the treatment vacuum pressure for the patient in the system, and to produce a treatment vacuum pressure signal;
- (c) a sampling circuit operable intermittently by electrical power to sample said pressure signal generated by said vacuum pressure sensor at predetermined time intervals and generate sampling signals;
- (d) an electrically powered pressure display circuit communicating with digital pressure display, for receiving said sampling signals and generating a visible digital pressure on said digital pressure display;
- (e) a non-mains power supply connected for supplying power both to said sampling circuit for sampling said vacuum sensor, and to said display circuit and said digital display;

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- (f) a no-pressure signal generator for generating at least one no-pressure signal representing an absence of treatment vacuum pressure, and an alarm signal generator;
- (g) an operator override control whereby an operator can manually override said pressure control valve and supply full vacuum for treatment of said patient;
- (h) a sensor coupled to said manual control, said sensor being connected to said sampling circuit, and being operable to temporarily increase the sampling rate when said control is adjusted.

18. (New Claim) A digital pressure display as claimed in claim 14 and including a control sensor coupled to said manual control, said sensor being connected to said sampling circuit, and being operable to temporarily change the sampling rate when said control is adjusted.

CONCLUSIONS

Agent for Applicant respectfully states that the application is now in condition for immediate allowance and respectfully solicits same.

Yours respectfully,



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